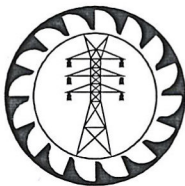


120-3: 2020

# CEB SPECIFICATION

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## LIGHT VEHICLES



**CEYLON ELECTRICITY BOARD  
SRI LANKA**



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## SPECIFICATION FOR LIGHT VEHICLES

### 1.0 SCOPE

This specification covers the general requirements of the design and manufacturing of following types of Light Vehicles.

- a) Double Cab Two Wheel Drive
- b) Double Cab Four Wheel Drive
- c) Dual Purpose Van – Flat Roof
- d) Dual Purpose Van – High Roof, 5 / 8 seating capacity
- e) Mini Van
- f) Motor Car
- g) SUV/CUV

The procurement entity will select one or more of above categories with seating capacity in the price schedule.

### 2.0 SERVICE CONDITIONS

(a)	Annual average ambient temperature	30°C
(b)	Maximum ambient temperature	40°C
(c)	Maximum relative humidity	90%
(d)	Solar Radiation	4.5 kWh/m day
(e)	Environmental conditions	Humid tropical climate with heavily polluted atmosphere
(f)	Operational altitude	From M.S.L. to 1900 m above M.S.L.
(g)	Isokeruanic (Thunder days) level	100 days

### 3.0 APPLICABLE STANDARDS

The vehicle shall conform to the Motor Traffic Act of Sri Lanka and latest amendments. All instructions and indications shall be in English Language.

### 4.0 BASIC FEATURES

The vehicle shall be of brand new and be of a newer model suitable for use in tropical climate. The offered vehicle shall be Right Hand driven with following but not limited to, factory fitted standard fittings and indications unless stated otherwise.

#### 4.1 Standard Fittings

1. FM radio(88-108MHz)/Stereo type CD/DVD player with speakers and antenna (Either factory or locally fitted).
2. Clock.
3. Air Conditioning System working on CFC free refrigerant.
4. SRS standard Air bags for driver and passengers.
5. Front three-point seat belts for driver and passengers.
6. Rear two-point(minimum) seat belts for passengers.
7. Phone charger socket.



8. Seat head restraint for all passengers and driver
9. Side steps for high ground clearance vehicles.
10. Mud flaps for front and rear wheels.
11. Full set of floor carpets.
12. Sun visors for front passenger and driver.
13. Both side view mirrors and rear view interior mirror.
14. Two wind shield wipers with minimum two variable speeds and intermittent operation facility.
15. Wind shield washer.
16. Heater/demister for rear wind screen
17. Interior lights.
18. Dual Electric horns.
19. Head lamps with auto and manual dimming facilities.
20. Turning indicator lamps.
21. Parking lamps.
22. Reverse lamps.
23. Rear number plate lamp.
24. Reverse warning buzzer.
25. Security alarm system (anti theft)
26. Reverse cameras.
27. Roof hand or front pillar grips.
28. Hand rests.
29. Panel illumination
30. Trunk room lamp
31. Trunk lid opener
32. Wiper switch in the left hand side of steering column and the Combination/Signal & head light switch in the right hand side of the steering column shall be provided.

#### 4.2. Instruments and Indicators

1. Speedometer with odometer and trip meter & Tachometer
2. Fuel level indicator.
3. Cooling water temperature indicator.
4. No/low battery charge indicator.
5. Head light dip/beam indicator.
6. Turning signal indicators.
7. Hazard warning indicators.
8. Parking brake indicator/ Break fluid low level indicator.
9. Engine oil low pressure indicator.
10. Low fuel indicator.
11. Door open indicators.
12. Seat belt not fastening indicator.
13. Four-wheel drive indicator as applicable.
14. Glow lamp indicator as applicable.





4.3. Specific features of the Double Cabs shall be in accordance with the following table.

	Double Cab		Dual Purpose Van	SUV/CUV	Mini Van	Motor Car
	Two Wheel	Four Wheel				
1. Fuel	Diesel		Diesel or Hybrid	Diesel, Petrol or Hybrid	Petrol or Hybrid	Diesel, Petrol or Hybrid
2. Engine Type	Radiator water cooled, in-line, overhead					
3. No. of cylinders	4				3 or 4	4
4. Engine Displacement						
(a) Diesel	2400 cc and not more than 3000cc		≤ 3000cc	≤ 3000cc	-	≤ 2000cc
(b) Petrol	-		≤ 2000cc	≤ 1600cc	≤ 1000cc	≤ 1600cc
5. Minimum Peak Engine Power(kW)	100 or above		80	90	45	75
6. Transmission	The minimum requirement is 4 forward speeds and a reverse with manual synchromesh. Five or more forward speeds will be preferable. The floor/dash board mounted gear shift and single drive plate clutch mechanism to be provided. Alternatively, automatic transmission is acceptable.					
7. Steering	Hydraulic, Electric or any other power assisted steering system with tilt, telescopic column and steering lock shall be provided.					
8. Suspension	<b>Front:</b> Independent double wishbone, torsion bar with telescopic type shock absorbers <b>Rear:</b> semi elliptic leaf springs or coil springs with telescopic type shock absorbers.			<b>Front:</b> Mc Pherson strut type with coil springs. <b>Rear:</b> Fully independent multi-link type or torsion beam with coil springs.		
9. Seats	The driver's seat and front passenger seat must be separated, slide and reclining adjustable, factory fitted bucket type seats (not essential for mini vans) to give firm grip. All other seats shall be with recline adjustments and shall be of fabric finished. All interior exposed parts shall be suitably upholstered.					
10. Seating Capacity(min)	05 including driver		05 / 08 as selected in price schedule	05 including driver		
11. Body General	Body shall be robust suitable for rugged use. Weather protected front and rear bumpers and protective side body mouldings shall be provided.					
12. Roof Height (mm), (min)	N/A		Flat: ≥ 1300 High: ≥1600	N/A		
13. Doors	Four lockable doors and tail gate		Four lockable doors	Five lockable doors	Four lockable doors	Five lockable doors
14. Windows	Vertical sliding type glass windows for front and rear doors.		Vertical sliding type glass windows for	A Vertical sliding type glass	Vertical sliding type glass	A Vertical sliding type glass windows

	Double Cab		Dual Purpose Van	SUV/CUV	Mini Van	Motor Car
	Two Wheel	Four Wheel				
			front doors and sufficiently large sliding glass windows on both side of rear compartment.	windows for front and rear doors .	windows for front doors and sufficiently large sliding glass windows on both side of rear compartment.	for front and rear doors.
15. Ground Clearance (min, unladen)	200mm		160mm	190mm	160mm	160mm
16. Allowed Turning Radius	Not more than 7m					
17. Deck	Rear deck shall be double wall type with a minimum cargo capacity of 500kg. Suitable hooks shall be provided to fix a canopy.		N/A.			
18. Brakes & Stability	Servo assisted front ventilated discs and rear self-adjusting drum or disc brakes with parking brake. Anti-locking braking system shall be available. Stability and Traction Control features shall be available.					
19. Wheels & Tyres General	Pressed steel single wheels or better for front, rear and spare wheel. Tyres shall be radial type with suitable thread pattern for rough terrain without locking ring. (Low Profile tyres will not be acceptable) An identical spare wheel (complete with tyre) with fixing arrangements shall be provided. All tyres shall be identical.					
20. Tyre Sizes	At least 15 inches				At least 13 inches	At least 14 inches
21. Fuel Tank General	Frame mounted fuel tank with lockable type filling cap shall be provided. A suitable mechanism for opening the fuel lid shall be arranged from the driver seat.					
22. Fuel Tank Capacity (liters)	70		60	50	35	50
23. Electrical System	12V electrical system shall consist of battery, starter motor and battery charging alternator.					

**Note: In case of hybrid vehicles for the evaluation as per the formula stipulated in Annex A, the limits of engine capacity and the fuel tank capacity will be disregarded.**



## 5.0 REQUIREMENTS FOR SELECTION

### 5.1 Quality Assurance

The manufacturers shall possess ISO 9001:2015 or latest Quality Assurance Certification valid throughout the delivery period of this bid, for the manufacture of offered vehicle for the plant where manufacturing is being done. The Bidder shall furnish a copy of the ISO certificate certified as true copy of the original by the manufacturer, along with the offer.

### 5.2 Supplier's Experience

Makes of the vehicles shall be of well-known brands in Sri Lanka for at least past 10 years. Suppliers for those have to be well established and must have reputed dealers/local agents in Sri Lanka for the last ten years with fully fledged repair and service facilities, in order to maintain adequate spares at least for the next 10 years period. Valid documents (such as import documents, clearing documents etc) shall be attached to verify that the offered make has been used in Sri Lanka for at least 10 years.

The details of location, contact numbers, machinery and equipment available and staff with their qualification etc shall be provided.

## 6.0 INFORMATION TO BE FURNISHED WITH THE OFFER

The following shall be furnished with the offer.

- (a) Comprehensive catalogues, relevant dimensional drawings on the offered items.
- (b) ISO 9001:2015 or latest Quality Assurance Certificate in accordance with clause 5.1.
- (c) Manufacturer shall furnish a list of workshops, equipment, capabilities and annual records to prove his capacity in accordance with Clause 5.2.
- (d) Duly filled and signed 'Annex - B: Schedule of Technical Requirements and Guaranteed Technical Particulars'.

Not furnishing above documents and details may result in offer being rejected.

## 7.0 PERFORMANCE GUARANTEES, WARRANTIES AND OTHER REQUIREMENTS

Minimum warranty period of 24 months or 40,000 km mileage whichever comes first for the offered vehicle, shall be provided.

### 7.1 Spares, tools and Manuals

The following spares and tools shall be supplied with each vehicle.

- (i) Spare wheel complete with tyre.
- (ii) Wheel brace.
- (iii) Jack with levers.
- (iv) Set of spanners, screw driver and pliers





(b) The following instruction manuals and the literature in English shall be supplied.

- (i) Operation & maintenance manual.
- (ii) Driver's instruction books.
- (iii) Service manual.

## 7.2 Registration of Offered Vehicle

Bidder shall register the offered vehicle and provide the number plate issued by the Department of Motor Traffic, Sri Lanka at the time of delivery.

## 8.0 LABELING/MARKING

Windscreens of each vehicle shall be labeled (with removal ink/ sticker) with the following;

- (a) "PROPERTY OF CEYLON ELECTRICITY BOARD"
- (b) Bid No. .... Serial No.....
- (c) Manufacturer's identification.
- (d) Item Type, Ratings / size / capacity.
- (e) Net Weight & Gross Weight in kg.
- (f) Year of Manufacture.

Marking of engine and chassis shall be done as per Motor Traffic Act of Sri Lanka.

## 9.0 INSPECTION AND TESTING

### 9.1 Inspection

The Successful bidder shall make necessary arrangements for inspection by an Engineer appointed by the CEB and also to carry out in his presence necessary Acceptance tests on procured item and material without any additional cost. Acceptance test reports shall be a part of the shipping document. CEB may waive off the inspection either with the condition of witnessing the acceptance tests by an independent body acceptable to CEB or completely. In such a situation a notice of waive off will be issued in advance to the supplier.

## 10.0 ANNEXES

- Annex – A : Evaluation Methodology
- Annex – B : Schedule of Technical Requirements and Guaranteed Technical Particulars
- Annex – C : Non-Compliance Schedule



## Annex- A

## EVALUATION METHODOLOGY

*Note: This methodology is applicable only for bids which have offers with non-homogeneous types of vehicles (i.e. offers with different fuel type of vehicles with different technology such as hybrid etc.). If all offers are homogeneous type, the evaluation can be done considering CIF value basis.*

The Bidders shall forward their offers on the basis of following evaluation formula.

(A) Suppliers shall make their offers on the basis of a following components which are taken for evaluation.

**1. Capital Cost (CC)**

This Includes CIF or ex-factory price, local agent's commission, custom duties, delivery and administrative charges and clearing charges as applicable. CEB will not pay anything over the quoted amounts other than exchange rate fluctuations and government tax policy changes.

**2. Annual Cost excluding fuel cost. (AC)**

The insurance charges (1.25% of Capital Cost), licencing fees and any other relevant taxes (prevailing on the month of bid opening) are included in this component.

**3. Fuel Cost (FC)**

This will be decided by the procurement entity based on the Ceylon Petroleum Corporation fuel price prevailing on the date of bid closing.

**4. Fuel Economy (e)**

Applicable for combined run (average of City Run and Highway Run as per manufacturer's catalogue).

**5. Annual Mileage (AM)**

For the evaluation procurement entity shall declare the intended annual mileage. Unless declared, annual mileage of 18,000km will be considered.

Accordingly, the evaluated Price of foreign Bidders and the ex-factory price of Local Bidders shall be computed as:

$$CC + \left( AC + \frac{FC}{e} \times AM \right) \times k$$

Where;

CC	Capital cost in LKR
AC	Annual cost excluding fuel cost in LKR
FC	Fuel price prevailing on the date of closing of bids (Issued by the Ceylon Petroleum Corporation) in LKR



e	Fuel economy ( km/l )
k	4.79 (Constant value), considering present value factor for 5 years (Discounting Rate Considered=10%)

\*All the currency conversions shall be done at the official Selling Exchange Rate of the Central Bank of Sri Lanka on the date of Bid opening.

**(B) Variation Figures**

The Bidders shall furnish;

- (i) Capital Cost **(CC)** with breakdown of components and formula.
- (ii) Annual Cost excluding fuel Cost **(AC)**
- (iii) Fuel Economy **(e)**

**in addition** to the rates requested in the price schedule.

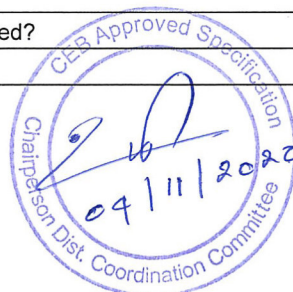




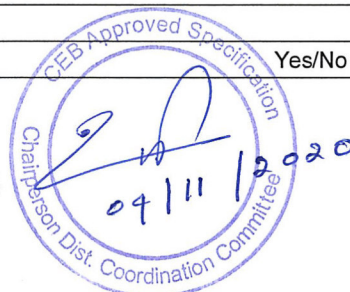
## Annex- B

**SCHEDULE OF TECHNICAL REQUIREMENTS AND GUARANTEED TECHNICAL PARTICULARS**  
(CEB Requirements shall be filled by the procurement entity and information of the offer shall be filled by the manufacturer)

		Offered
	Item offered as per price schedule:	
1.	Make	
2.	Model	
3.	Year of Manufacture	
4.	Country of Origin	
5.	Name & Address of the Manufacturer	
6.	Name & Address of the Local Agent	
7.	<b>General Information</b>	
	(a) Overall length m	
	(b) Overall width m	
	(c) Wheel base m	
	(d) Vehicle weight kg	
	(e) Gross Weight kg	
	(f) Overall height to roof top mm	
	(g) Ground clearance (un laden) mm	
	(h) Right hand drive Yes/No	
	(i) Body type	
	(j) Body colour	
	(k) Badges and Logos depicting make and model	
8.	<b>Seats</b>	
	(a) No. of seats	
	(b) Type of Seats	
	(c) Whether Driving seat is adjustable Yes/No	
	(d) Availability of seat belts for front passenger and driver Yes/No	
9.	<b>Engine</b>	
	(a) Model	
	(b) Type	
	(c) Maximum power output .....at.....rpm	
	(d) Displacement cc	
10.	<b>Fuel</b>	
	(a) Type of fuel used	
	(b) Fuel tank capacity l	
	(c) Whether fuel tank filling cap is lockable? Yes/No	
	(d) Whether suitable mechanism for opening the fuel lid is available from the driver seat? Yes/No	
	(e) Fuel consumption (City/Combined/Highway) km/l ...../...../.....	
11.	<b>Transmission System</b>	
	(a) Model	
	(b) Type (Auto/Manual)	
	(c) No. of Forward gear	
	(d) Whether floor/dash board mounted gear shifting provided?	
	(e) 4WD or 2WD?	



	a. If 4WD, whether full time or selectable?	Full time/ selectable	
	b. If 4WD, whether 4WD selection is possible at driving seat?	Yes/No	
12.	<b>Steering System</b>		
	(a) Power steering	Hydraulic/ Electric	
	(b) Minimum turning radius	m	
	(c) Whether steering system conform with the clause 4.3 Item 7?	Yes/No	
13.	<b>Suspension System</b>		
	(a) Front		
	(b) Rear		
14.	<b>Braking System</b>		
	(a) Front		
	(b) Rear		
	(c) Parking brakes		
	(d) Availability of ABS brakes	Yes/No	
15.	<b>Wheels &amp; Tyres</b>		
	(a) Number of wheels & tyres		
	(b) Tyre size	inch	
	(c) Wheel size	inch	
	(d) Spare wheel tyre size	inch	
16.	<b>Provided Standard Fittings</b>		
	(a) FM radio(88-108MHz)/Stereo type CD/DVD player with speakers and antenna (Either factory or locally fitted).	Yes/No	
	(b) Clock.	Yes/No	
	(c) Air Conditioning System working on CFC free refrigerant.	Yes/No	
	(d) Air bags for driver and passengers.	Yes/No	
	(e) Front three point seat belts for driver and passengers.	Yes/No	
	(f) Phone charger socket.	Yes/No	
	(g) Mud flaps for front and rear wheels.	Yes/No	
	(h) Full set of floor carpets.	Yes/No	
	(i) Sun visors for front passenger and driver.	Yes/No	
	(j) Two wind shield wipers with two variable speeds and intermittent operation facility.	Yes/No	
	(k) Wind shield washer.	Yes/No	
	(l) Cab interior lights.	Yes/No	
	(m) Dual Electric horns.	Yes/No	
	(n) Head lamps with dimming facilities.	Yes/No	
	(o) Front fog lamps.	Yes/No	
	(p) Turning indicator lamps.	Yes/No	
	(q) Parking lamps.	Yes/No	
	(r) Reverse lamps.	Yes/No	
	(s) Rear number plate lamp.	Yes/No	
	(t) Reverse warning buzzer.	Yes/No	
	(u) Rear cameras.	Yes/No	
	(v) Front pillar grips.	Yes/No	
	(w) Roof hand grips.	Yes/No	
	(x) Hand rests.	Yes/No	
17.	<b>Instruments Provided</b>		
	(a) Speedometer with odometer and trip meter	Yes/No	



	(b) Fuel level gauge	Yes/No	
	(c) Cooling water temperature gauge	Yes/No	
	(d) No/low battery charge indicator	Yes/No	
	(e) Head light dip/beam indicator	Yes/No	
	(f) Turning signal indicators	Yes/No	
	(g) Hazard warning indicators	Yes/No	
	(h) Parking brake indicator	Yes/No	
	(i) Engine oil low pressure indicator	Yes/No	
	(j) Low fuel indicator	Yes/No	
	(k) Door open indicator	Yes/No	
	(l) Brake failure indication	Yes/No	
18.	<b>Electrical System</b>		
	(a) 12 V electrical system with heavy duty battery	Yes/No	
19.	<b>Spares, Tools &amp; Manuals</b>		
	(a) Spare wheel complete with tyre	Yes/No	
	(b) Wheel brace	Yes/No	
	(c) Jack with lever	Yes/No	
	(d) Set of spanners, screw driver and pliers	Yes/No	
	(e) Operation & maintenance manual and the service booklet in English	Yes/No	
20.	Address of the dealer in Sri Lanka		
21.	Evidence provided for 10 years successful dealership in Sri Lanka	Yes/No	
22.	Availability of spare parts for 10 years?	Yes/No	
23.	Availability of service & repair facilities for next 10 years ?	Yes/No	
24.	Number of similar vehicles sold during last 05 years		
25.	Whether the vehicle offered conforms to Motor Traffic Act of Sri Lanka	Yes/No	
26.	Warranty		
27.	Valid documents attached to verify the age of offered make in the local market	Yes/No	
28.	Standard accessories (please list in the space provided or attach the list separately)		
29.	Whether offered vehicle will be registered by the bidder and provide the number plate issued by the Department of Motor Traffic , Sri Lanka at the time of delivery .	Yes/No	

.....  
Signature and seal of the Manufacturer

.....  
Date

I/We certify that the above data are true and correct

.....  
Signature and seal of the Bidder

.....  
Date





## Annex – C

**Non-Compliance Schedule**

On this schedule the bidder shall provide a list of non-compliances with this specification, documenting the effects that such non-compliance is likely to have on the equipment life and operating characteristics. Each non-compliance shall be referred to the relevant specification clause.

Clause No.	Non-Compliance

.....  
Signature of the Manufacturer and seal

.....  
Date

I/We certify that the above data are true and correct

.....  
Signature of the Bidder and seal

.....  
Date

